

Xmas Party For Kiddies December 21

There's going to be a lot of fun for both grown-ups and their youngsters during the week before Christmas when the two big annual parties arranged by the Y-12 Recreation Office will be staged. In past years these parties have been full of entertainment for one and all—from the lowest age bracket on up—and nothing will be left undone this year to make the 1949 edition of the affairs the best in history.

SANTA TO PERSONALLY PRESENT GIFTS TO ALL

Sure, old Santa Claus will be there with gifts for every one of the young guests—personally presented. Cartoon movies with all the favorite characters will be shown and the small fry will get an opportunity to exercise their lungs in the singing of Christmas carols. The doors of the theater will be open at 9:40 a.m. to give all the kids a chance to get seated before the festivities begin.

On Page Two of this issue of The Y-12 Bulletin is published an application blank for parents to fill out to obtain tickets for their youngsters to attend the Children's Party. Parents are urged to properly fill out and return the blanks as soon as possible so that the Recreation Office may mail out the tickets.

NEARLY 600 ATTENDED PARTY LAST YEAR

Parents or an adult escort may accompany children if absolutely necessary—but on account of the limited space in the theater and the large number of youngsters expected to attend—the grown-ups will be asked to forego attending the children's party. Last year nearly 600 youngsters were present when the party was held in the Center Theater—even after it was postponed for one day. Of course, if the youthful guests are toddlers, they need adult escort, but otherwise parents may be sure that Santa and his aides will take care of their youngsters.

Just one more reminder about those tickets for the Children's Party—individual tickets will be sent to every youngster whose parents apply for them. They will sent to the home address given by the parent after the application blank is sent to the Y-12 Recreation Office, North Portal—so please don't call for the tickets at the Recreation Office. The application blank will be published in The Y-12 Bulletin for two more weeks to give all employees ample opportunity to obtain them.

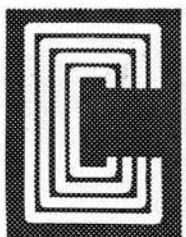
PARTY FOR GROWN-UPS SET FOR DECEMBER " "

Now—for the grown-ups. The annual Y-12 Christmas Party this year has been scheduled for Thursday night, December 22—the night after the Children's Party. The shindig will be given at the beautiful Oak Terrace with fun beginning promptly at 9 p.m. and continuing until 1 a.m. Johnny Baker's orchestra will provide music for the dancing and a lot of entertaining features also are planned. So be there—and don't be late.

Watch The Y-12 Bulletin during the coming weeks to learn all the newest developments on these two big events.

COBALT USED ON CORN

A visit to the Brookhaven National Laboratories of the Atomic Energy Commission is reported by Bob Considine, New York Journal-American columnist, who describes an experiment with radioactive cobalt in growing corn to determine the effect of gamma rays on growth and nature of plants at specific distances from source of rays.



Y-12 BULLETIN

A NEWSPAPER BY AND FOR EMPLOYEES OF CARBIDE AND CARBON CHEMICALS CORPORATION IN Y-12

Volume 3, No. 46

OAK RIDGE, TENNESSEE

Wednesday, November 30, 1949

Fine Plant Safety Record Is Continued By Employees Of Y-12; NSC Award Will Be Presented Here Today

SAFETY SCOREBOARD

Your Plant Has
**Operated
159 DAYS
Without A Lost Time
Accident
THROUGH NOV. 27**

With Y-12 employees just a few day away from reaching the 1,500,000 man-hours worked without a disabling accident marked, a previous safety record established in 1948 will be recognized here today when the plant will receive the Distinguished Service To Safety Award from the National Safety Council.

This award will be presented to Y-12 by W. G. Johnson, a representative of the National Safety

Council from Chicago. It will be accepted on behalf of Y-12 employees by Dr. C. E. Larson, Y-12 Superintendent. The brief ceremonies will be held in the Y-12 cafeteria at noon today.

The talks by Dr. Larson and Mr. Johnson are to be tape recorded and broadcast by Oak Ridge Radio Station WATO at 2 o'clock Wednesday afternoon.

The Distinguished Service To Safety Award is presented by the

National Safety Council to industrial plants in the country that reduce the severity and frequency rate of accidents in any one year from the previous year's record. In Y-12 the 1948 records in severity and frequency of accidents were sharply reduced that year from the 1947 marks.

The National Safety Council slogan "Safety is Everybody's Business" is reflected in the present record being compiled by Y-12 folks. Under the watchful eyes of Supervision, employees in all types of work in the plant are consistently going about their work under procedures designed to eliminate all unsafe practices and hazards.

Accidents Have Definite Causes

By continuing the string of accident free days Y-12ers are demonstrating that they constantly regard observance of the safety rules and regulations as a means of preservation of health and life and protection of property at the same time. They realize that accidents have definite causes and the safety procedures have been drawn up to abolish these causes.

When the 1,500,000 man-hours worked without a lost time accident mark is reached some time early in December it will be the second time that this goal has been attained in Y-12. This accident free period was established from August 24, 1948, to April 25, 1949. After this period was completed Y-12 employees went on to extend the figures to about 2,850,000 hours.

Want To Continue Trend

After passing the immediate goal of 1,500,000 man-hours worked without a disabling accident the next step will be to attain and pass the 2,850,000 hour mark and then continue the trend indefinitely.

UCC Vice President To Talk At Metals Society Meeting

Dr. Augustus B. Kinzle, vice president of the Union Carbide and Carbon Corporation Research Laboratory and also of the Electro-Metallurgical Corporation, will speak at the next meeting of the Oak Ridge Chapter of the American Society For Metals. The meeting will be held at 8 o'clock next Tuesday night, December 6, in the West Lounge of the Ridge Recreation Hall.

Dr. Kinzle's subject will be "Welding Metallurgy, Present and Future." All members of the society in Oak Ridge and others interested in the topic are invited to attend the session.

NEW ATTENDANCE RECORD IS ESTABLISHED

R. L. Murray Will Be Physics Seminar Speaker

Raymond L. Murray, of the Y-12 Electromagnetic Research Laboratory, will be the speaker at the Oak Ridge Physics Seminar, Friday, December 2, at 4 p.m., in the Ridge Recreation Hall. This seminar, the second in a series contributed by Y-12 personnel, is on the subject, "Arc Discharges in Magnetic Fields."

Murray plans to discuss the experimental phases of the subject, show analogies between the theory of arcs and nuclear reactors and describe a few of the important unsolved theoretical problems. This broad field of research on the motions of ionized particles in magnetic fields is receiving the especial emphasis in physics laboratories today, particularly because of its bearing on high energy particle accelerators.

Murray received his B. S. and M. A. degrees in physics at the University of Nebraska. His doctoral work in physics began at the University of California at Berkeley in 1941 and is being completed at the University of Tennessee.

While at Berkeley he was associated with the Radiation Laboratory, which developed the prototype calutron for the electromagnetic separation process. Since 1943, he has been connected with production and development at Y-12 and is, at present, in charge of the Physics Research Group of the Electromagnetic Research Laboratory.

CANADA SEEKS OIL, ORE

The New York Herald Tribune notes increased activity in Canada in searching for pitchblende and oil.



Dr. Linus Pauling

ACS To Hear Pauling; Section Officers Named

The largest gathering on record of Oak Ridge members of the East Tennessee Section of the American Chemical Society is expected to hear Dr. Linus Pauling, president of the ACS, speak at 8 o'clock tonight at the Oak Terrace. The address by Dr. Pauling will be preceded by a dinner at the same location at 6:30 p.m. Dr. Pauling will speak on "The Valence of Metals and the Structure of Intermetallic Compounds."

Following his address here Dr. Pauling will speak in Knoxville at 11 o'clock Thursday morning at Dabney Hall at the University of Tennessee when his topic will be "The Structure of Antibodies and the Nature of Serological Reactions."

Meanwhile, Oak Ridge members of the ACS, including many Y-12

(Continued On Page 2)

Absenteeism 1.7 Per Cent; Dept. 2077 Again Tops

Paced by Dept. 2077, Electrical Maintenance, employees who reported perfect attendance for the fifth consecutive week, Y-12ers established an all-time work attendance record for the week ending November 20 when only 1.7 per cent of the plant personnel was absent. The previous low mark was 1.8 per cent, established during the week ending May 22 and then equalled for three more weeks afterward for periods ending May 29, June 5 and June 12.

Perfect attendance records in the departments of more than 50 employees scheduled are rare so when any such department in the Major League comes through with five straight weeks without an absentee blot against its record, the achievement is really exceptional. A recapitulation of the Electrical Maintenance Department record since last May through November 20 shows the department has been in first place in the attendance standings 18 times, was second seven times and third two times. Twice the department was in fourth place during that period.

The record-breaking attendance record of 1.7 per cent was attained by good reports from all departments. In addition to the Dept. 2077 perfect record, nine more departments, all in the Minor League, also reported "all present" for the week ending November 20.

Two newcomers to the "top three" appeared in the Major League standings for that week. They were the Guard Department in second place with an absentee mark of only .2 per cent and which rose from seventh place held the previous week; and Isotope Research and Production, reporting .6 per

(Continued On Page 2)

Several Y-12 Employees, Sons Are Active In Civil Air Patrol

As one of the basic foundations of the nation's interest and accomplishments in aviation, the Civil Air Patrol holds a vital role and Oak Ridgers, though the Oak Ridge Squadron of the CAP, are contributing many hours monthly to keep abreast with the world developments in flying.

Among the CAP squadron members are several Y-12 employees and their sons, who turn out regularly twice weekly for meetings at the Oak Ridge Squadron headquarters at Middletown on the Oak Ridge Turnpike and at the Oak Ridge Air Park between the city and Oliver Springs on Sundays for flights in the recently obtained Army training airplane.

Among the Y-12ers and sons enrolled in the Oak Ridge Squadron are G. G. Wright, Maintenance Utilities Department, a lieutenant in the squadron; L. A. Slover, Electromagnetic Research Laboratory; his son, Robert Slover, 15, and a student at the Oak Ridge High School; Don Miller, son of Emmitt

Miller, also of Maintenance Utilities; and Grant Payne, son of Yale Payne, Property Department.

Don Miller and Grant Payne have been cadets in the squadron for several months and with other cadets have studied aircraft maintenance, map reading and other

(Continued On Page 4)



DON MILLER, SON OF EMMITT MILLER OF Y-12, IS shown receiving instruction at the controls of a Link trainer at headquarters of the Oak Ridge Squadron of the Civil Air Patrol.

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ACS To Hear Pauling; Section Officers Named

(Continued From Page 1)
chemists and other scientists, voted for officers of the East Tennessee Section for the coming year and also heard an address by Emerson P. Poste at a meeting held at the Oak Terrace last Monday, November 21. The new officers will take over their duties January 1 with the exception of Chairman-Elect Carl T. Bahner, of Carson-Newman College, who assumes office January 1, 1951.
The new chairman for 1950 will be Dr. H. A. Bernhardt, of Carbide's K-25 plant, who was elected last year. Other officers for the East Tennessee Section who will serve next year include Howard Junkins, K-25, secretary; Adele Sargent, K-25, treasurer; George K. Schweitzer, University of Tennessee, Knoxville, member of the executive committee and James L. Gabbard, of K-25; and Fred A. Griffiths, Maryville College and retiring chairman, as councilors.
Two Y-12ers are members of the executive committee and councilor group. They are Jesse M. Herndon and C. D. Susano, respectively.

Laurence Cites Atom Alternatives

William L. Laurence, science editor of the New York Times and an authority on atomic energy, recently said that he believed the harnessing of atomic energy may mean either "doomsday" or "creation of a new world." Laurence pointed out that the single most significant aspect of atomic science since the explosion of the first atomic bomb is the use of by-products in medicine and research. He made his observation on the premier presentation of "Atomic Report," a weekly television program, in New York.

Lilienthal Favors Full Leadership

David E. Lilienthal, chairman of the Atomic Energy Commission, has been quoted in a recent news story as saying the United States must do everything in its power to "establish unquestioned and unmistakable leadership" in any atomic armaments race. The chairman emphasized that nothing should stand in the way of the country being provided with sufficient atomic arms to deter any aggressor.

New Attendance Mark Established In Y-12

(Continued From Page 1)
cent of its personnel absent and which advanced from fifth place.
In the Minor League there were six repeaters among the nine departments with no absenteeism. The repeaters were Receiving and Shipping, Employee Relations, Transportation, Steam Plant, Cafeteria and Canteens and Maintenance Automotive Equipment.
Three of the lower bracket departments in the standings for the week ending November 13 joined the other six in the perfect attendance bracket. They were Manufacturing Offices, from fourth place; Fire Department from fifth; and Superintendents, from seventh.
Second place in the Minor League for the week ending November 20 was taken by Maintenance Utilities with an absentee mark of .7 per cent. Third place was held by the Chemical Department with an even one per cent of its employees absent and which advanced from ninth place held the previous week.
The Y-12 absentee record for the week ending November 20, by departments, follows:

MAJOR LEAGUE			
Dept.	Percentage Absent	11-20-49	11-13-49
2077	0.0	1	1
2091	0.2	2	7
2360	0.6	3	5
2003	1.4	4	6
2015	1.6	5	4
2300	2.1	6	3
2616	2.2	7	2
2320	2.3	8	9
2283	3.1	9	10
2282	3.56	10	12
2014	3.63	11	8
2142	3.9	12	11

Group absentee percentage was 2.0 per cent, .4 per cent lower than the preceding week.

MINOR LEAGUE			
Dept.	Percentage Absent	11-20-49	11-13-49
2143	0.0	1	1
2109	0.0	1	1
2008	0.0	1	1
2743	0.0	1	1
2107	0.0	1	1
2009	0.0	1	1
2133	0.0	1	4
2093	0.0	1	5
2200	0.0	1	7
2005	0.7	2	1
2619	1.0	3	9
2001	1.2	4	1
2090	1.33	5	1
2096	1.33	5	10
2060	1.9	6	2
2270	3.5	7	1
2140	3.8	8	8
2002	4.4	9	6
2739	5.0	10	3

Group absentee percentage was 1.1 per cent, .3 per cent lower than the preceding week.

The plant average for the week ending November 20 was 1.7 per cent, .5 per cent lower than the preceding week.

POSTMEN NOT HAPPY

Rural letter carries in Southern New Hampshire are reported in a recent United Press news story as finding new hazards in their job besides combatting traditional rain, sleet, mud and snow. Carriers are reported complaining that swarming hornets nest in letter boxes and hamper mail deliveries. They ask residents to oust the insects with poison spray.

Critics: People who go places and boo things.



GUESTS AT A LINEN SHOWER GIVEN NOVEMBER 17 FOR MRS. THELMA MILLER, (NEE Groseclose) are pictured above. The affair was given at the home of Roberta McCutcheon, 103 Palmer Road, who with Virginia Bowers, were hostesses. Mrs. Miller is an employee of the Y-12 Technical Service Laboratory and most of the guests were Y-12ers. Front row, from left, are Mrs. Georgia Longstreth, Terry McCutcheon, Mrs. Miller, the honoree; Nancy Doane, Virginia Bowers, Florence Hausch, Roberta McCutcheon and Elizabeth Young. Back row, from left, are Clodine Brewer, Mary Barnes, Jeanne Rogers, Dorothy Dougherty, Mrs. Ruth Scheitlin, Helen Grady, Mrs. Muriel Murphy, Mrs. Louise Ward, Reba Justice, Janet Cisar and Eunice Bogle. The picture was made for The Y-12 Bulletin by John Ramsey, Y-12 member of the Carbide Camera Club.



Whew—as this is written on a dark and damp Monday morning everybody is still raving about that football show at Shield-Watkins Stadium last Saturday. . . Of course, the figuring folks are still trying to figure how Tennessee won—but just remember no ball game is won with men left on bases. . . A host of Y-12ers were on hand to watch the game with mixed emotions—depending on the colors they wore. The Employment Department was represented by Bob Cantrell and Joe White. . . T. A. Williams, the genial Y-12 cashier who actually smiles when he cashes pay checks, was on hand and Betty Sepsy, of Uranium Control and Computing, and her husband also were present and accounted for. . . It would take a long column to mention all the folks there and as we haven't got rubber type we just can't print all the names.

Madeline Franklin, of Uranium Control and Computing, and her husband traveled over to Hickory N. C. to spend the past week end.

L. O. Gilpatrick of Isotope Research and Production, and Mrs. Gilpatrick were in Chicago, Ill., the past week end to attend the wedding of his sister-in-law.

H.O. Ramey and James R. Whitcomb, of Industrial Relations, are vacationing in Oak Ridge this week and may use the time to catch up on Christmas shopping.

Dorothy Connor, of the Plants Department, and her husband, tra-

veled all the way down to Gadsden, Ala., November 19, to see Lenoir City High School and Gadsden High School play football. . . Desma Hutchison spent Thanksgiving Day with Katherine Jenkins in Clinton.

Chemical Research reports Margaret O'Neal had her father-in-law, from Florida, as a recent guest. . . George Nettle and family are on vacation up in Yankeeland (Corn- ing, N. Y.)

H. C. McBirney, Superintendents Department, is back at his desk after a two-week vacation in Florida and probably not so happy about it. . . Marie Greenway spent Turkey Day in Lenoir City with her sister.

Gordon Linder, of Research Engineering, spent his vacation last week fixing up his house over in Norris.

Plant Engineering reports Vincent (Curly) Moore, the Y-12 picture-making feller, spent his vacation in North Carolina and other way stations and doing a little fishing on the side. . . W. E. Gary didn't leave Oak Ridge during his vacation. . . Emil Vincens is entertaining his sister from Switzerland at his home in Oak Ridge.

R. L. Sampsel, of Electrical Maintenance, spent last week on vacation at home and doing some hunting. . . C. O. Johnson is vacationing right here in Oak Ridge. . . T. L. McCreary and Mrs. McCreary went up to Kentucky while on vacation. . . Other vacationers of the department include M. C. Gore, T. B. Hendrix in Florida and D. P. Anderson. . . Sue Holliday and Grace Trammel were among the departmental representatives at the Vol-Vandy game Saturday in Knoxville. . . J. C. Ezell is vacationing this week and had planned to go to Tellico Plains with George Oliphant, of Plant Engineering, on a deer hunt. . . J. D. Slaughter is vacationing at Cleveland, Tenn., while G. E. Fielden is doing likewise in Oak Ridge.

Elmore Koons, of Field Maintenance, is vacationing in St. Louis. Several other folks down that way also are vacationing—including A.M. Lowry, who is bear hunting over Tellico way. C. H. Noe took his time off in Morristown and Oak Ridge. . . J. T. Thomas in Chattanooga with a side trip down in Alabama. . . Morris Bailis went up to New York City. . . B. A. Clark took it easy in Oak Ridge. . . However, C. J. Mitchell and T. S. Moody traveled up to Virginia to do some deer hunting.

Standby Plant Maintenance reported C. J. Beckett just standing by in Oak Ridge while on vacation. The same is reported of E. F.



The following Y-12 employees were patients in the Oak Ridge Hospital last week: Helen L. Hicks, Assay Laboratory; William L. Coggins, Stores; Roy B. Roseberry, Isotope Research and Production; Betty Sherman, Analytical Laboratory; and Jim N. Crowley, Janitors.

Sosby, of Maintenance Utilities. Cafeteria and Canteens Department extend get well wishes to Ann McNamee, the little daughter of Supt. George J. McNamee. . . Incidentally "Oncle Jawge" is receiving a lot of compliments for the fine Thanksgiving dinner served last Wednesday.

G. H. Booth, of Stores, went to Rockwood to spend Thanksgiving Day with his brother. . . Paul Brownlow and a group of friends had planned to go to the Smokies Thanksgiving—hope they didn't get caught in that turkey (fowl) weather. . . W. C. Anderson stayed home in Oak Ridge during vacation. . . Get well wishes are extended to T. S. Curtis and W. L. Coggins, both of whom have been ill.

The Tool Department reports C. L. Stuckey spent his vacation at home in Oak Ridge.

J. W. Garland, of Receiving and Shipping, went to Kingsport to spend Thanksgiving with relatives there.

Ray Duckworth, Isotope Research and Production, vacationed in Oak Ridge. . . Oliver Yonts braved the chilly breezes of the Windy City to attend a meeting of the American Physics Society in Chicago, Ill. . . . Boodie Garrett and her husband spent a recent week end in Chattanooga. . . J. R. Walton was among the Y-12ers who drove up to Lexington to see the Kentucky-Tennessee football game.

Incidentally, one of the best, although belated, wise cracks from the Kentucky-Tennessee fracas was the report that Kentucky Coach Bear Bryant after hearing the historical remark of Tennessee Coach Bob Neyland that "They haven't ever beaten me" came back with a wistful—"Well, I Can Dream, Can't I."

Lucky Lucille Whitman, of Wage Standards, and her husband, Graydon Whitman, Isotope Research and Production, vacationed in Florida.

W. T. Hays, of the Y-12 Security Office, and his folks are vacationing for two weeks down in Paris, Tenn.

The Property Department reports Roscoe Angel spent his vacation over in nearby Oakdale (remember Oakdale?) and went coon hunting. . . Howard Estey stayed home in (Continued on Page 4)

Application For Tickets To

Christmas Party For Children Of Y-12 Employees Two To Ten Years, Inclusive

EMPLOYEE'S NAME _____ BADGE NO. _____
HOME ADDRESS _____
NUMBER OF TICKETS NEEDED, If parent included, please indicate here _____
-Children's Names-
1. _____ 2. _____ 3. _____
4. _____ 5. _____ 6. _____

Please return this form, properly filled out, immediately to the Y-12 Recreation Office, North Portal. Required number of tickets will be mailed to parents at their HOME ADDRESS.

SPORTS NEWS IN Y-12

Y-12 Men's Varsity Basketball Open Season Next Monday Night Against ORNL; Both Teams Journey To Clinton On December 12

The Y-12 men's varsity basketball team will make its season's debut at 7:15 p.m. next Monday, December 5, against the cagers of the Oak Ridge National Laboratory in the new gymnasium of the Jefferson Junior High School. This clash will be one of three games scheduled as the Oak Ridge City League gets under way and admission to the triple-header is free.

The Y-12 basketball team has been looking mighty good in practice and squad members are hoping that they will have a good rooting section from the plant fans out to give them a good send-off in their initial contest.

Guards Blast 'Canes To Take Lead In C

E. B. Galloway continued to burn up the alleys for the Hooks team in the C League last week and aided his outfit to jump into a tie for second place in the league standing. The Hooks took the Thin Pins for four points but it was the Guards that proved to be the big winds of the alley activities last Wednesday as the boys in blue blew the Moles out of competition with four straight points, taking over first place themselves as the Orphans took three from the Hurricanes, dropping the Hurricanes to fourth.

Short Circuits Take Three

The Short Circuits had their best night of the season by taking three points and tying one with the Hornets. If this deadlock has any effect on the final standing it will be bowled off later.

Galloway came through with a 512 scratch series, boosted to 614 with handicap. However, he failed to monopolize individual honors, as he had the previous week, as Thurman, of the Hurricanes, posted a 211 scratch single and 247 handicap single game.

Guards Sweep Team Honors

In running roughshod over the Hurricanes the Guards swept all team honors, scoring the season's high handicap single game with 1,092. They also posted a 2,991 handicap series score, also high for the season. Their scratch single game was 821 and scratch series 2,208.

League standing follows:

Team	W	L	Team	W	L
Guards	25	11	Thin Pins	14	22
Orphans	24	12	Moles	12	23
Hooks	24	12	Hornets	13	22
Hurricanes	23	13	Short Circuits	7	28

Many Camera Club Members Busy Planning Xmas Cards

Members of the Carbide Camera Club already are at work on their photographic Christmas cards for the December contest of the club scheduled for 7:30 o'clock Tuesday night, December 13, in the Y-12 East Portal building, officers of the club have announced. Nat Stetson, of Y-12, vice president of the club, has reminded club members intending to enter the event to be sure and submit the entire card, not just the picture, in their contest entry.

Deadline for entries will be Friday, December 9, and the entries may be left either at Stetson's home, 105 West Magnolia Lane, or Taylor Photo Shop.

The annual election of officers also will be held at the December meeting. A nominating committee composed of Ed Mann, of Y-12, Ed Witt, of K-25, and O. K. Lewis, of Oak Ridge National Laboratory, will submit a slate of candidates at this session. Nominations also may be made from the floor.

WHAT NEXT DEPARTMENT?

Now a news story from Oakland, Cal., reports a truck and tugboat colliding. The truck driver is reported as explaining he swerved to miss an automobile while driving on a waterfront pier and the truck nosed off the dock with the front wheels resting on a tugboat moored alongside.

"CAT-NAP" COSTLY

The United Press reports E. L. Frayser, of Memphis, Tenn., recently "cat-napped" while driving home and awoke with a broken arm. His automobile did not have a scratch but a mailbox had snagged the driver's elbow as it was sticking out the window.

Meet Southern Bell Next

The league schedule will be continued by the Y-12 quintet at 8:30 p.m. Friday, December 9, at the new Jefferson gymnasium with the Southern Bell basketball team as opponents. Then on Monday night, December 12, both the Y-12 men's and women's varsity cagers will journey over to Clinton to meet the masculine and feminine teams of that metropolis in a twin-bill starting at 7:15 p.m. This appearance will mark the first start of the Y-12 lassies in a league contest.

Teams in the men's league include Y-12, ORNL, K-25, Southern Bell, Clinton, NEPA Division of Fairchild Airplane and Engine Co. and the Lutts Motor Co. In addition to Y-12 in the women's loop are ORNL, K-25, Roane-Anderson and Clinton.

With every member of the squad seeing action, the Y-12 women cagers dropped an informal practice session last Sunday night to the K-25 girls by the score of 23 to 19. The score was tied at 10 to 10 at half time and the K-25ers put on a last quarter spurt to take the decision.

Practice Sessions Announced

Recreation Supervisor Arnold Tiller has announced the following practice sessions for both the men and women cagers:

Thursday, December 1, both squads at 6 o'clock in the new Jefferson gymnasium.

Friday, December 2, women's squad at 6 p.m., men at 7:30 p.m., new Jefferson gymnasium.

Monday, December 5, women's squad at 7:30 p.m., old Jefferson gymnasium.

Thursday, December 8, women's squad at 6 p.m. at the new Jefferson gymnasium.

Bowling Will Be Resumed After Thanksgiving Holiday

With Thanksgiving turkey dinners now well digested, bowling will be resumed in two plant leagues and the women's city league this week after a holiday suspension. The women's plant league will roll at 6 o'clock Wednesday night at the Jefferson alleys and the B League of men pinmen will knock 'em over at 5:45 p.m. Thursday at the Oak Terrace. The women's city league also will resume play at 8:30 p.m. Thursday at the Oak Terrace.

Checker Players Will Meet Friday

Checker players of Y-12, originally scheduled to hold an organizational meeting Tuesday night of this week, will meet at 7 o'clock Friday night instead, it has been announced by the Recreation Office. At this time plans will be made to form a Y-12 plant league, after which those attending the session will be turned loose on the checker boards and also served refreshments. Anyone in the plant, man or woman, interested in the game is urged to attend the Friday night session.

Dagwood's Splitting Of Atom Praised

At last, a kind work has been delivered in favor of the much maligned "comic books." On the floor of Congress, Rep. Eugene J. Keogh, of New York, has praised the educational comic book, "Learn How Dagwood Splits The Atom." The book was created by Joe Musial, director of the King Features Educational Division.

Strikers And Termites Stage Thrilling Scrap

The Isotopes slipped into the lead in the first night of play in the second round of the D League of plant pinmen Tuesday night, November 22, at the Central Alleys, when they dunked the Angstroms for a four-point whitewash. However, the feature match of the night was a ding-dong affair between the Strikers, first round winners, and the Termites, first round runners-up, taken by the Strikers to the tune of three points to one.

Gragg Sweeps Individual Honors

The Termites tried tremendously to down their foes and were paced by their varsity bowler and anchor man, Frank Gragg, but to no avail. Gragg posted the season's high scratch single game of 237 and swept all honors of the night in individual scores with a 585 scratch series, 260 handicap single game and 654 handicap series, having a 195 scratch average for the session. However, it was a team night for the Strikers who took the first game by 20 pins, the second by 13 and allowed the Termites to come through with a three pin victory in the final game. In the total series scores the victors tallied 2,853 to 2,823 for the vanquished team, a margin of only 30 pins.

The Termites also got high team scratch single game and scratch series scores of 809 and 2,442 respectively. The Isotopes posted high handicap single game of 991 and handicap series of 2,939, aided by Bob Love's 490 and 631 series scores.

Four Teams Split Even

In other matches of the night the Overheads and Old Men divided four points and the Splinters and Materializers did likewise. Nelson Tibbatts posted a neat 427 scratch series for the Overheads, Leo Caldwell got a 483 for the Splinters and Tom Crabtree a 472 for the Materializers.

League standing follows:

Team	W	L	Team	W	L
Isotopes	4	0	Splinters	2	2
Strikers	3	1	Materializers	2	2
Overheads	2	2	Termites	1	1
Old Men	2	2	Angstroms	0	4

Complete Recording Of 'Aida' Will Be Presented Thursday

Giuseppe Verdi's opera "Aida" containing some of the most melodic and spectacular music ever written, will be presented in its entirety at the weekly concert of the Oak Ridge Music Listening Group at 8 o'clock Thursday night, December 1. The concert will be given in the East Lounge of the Ridge Recreation Hall. There is no charge for admission and the public is cordially invited to this outstanding musical offering.

The triumphant march, the exotic Egyptian ballet music and the great aria, "Celeste Aida," are included in the great treasury of melody for which Verdi is noted and all will be presented in the concert, the first operatic presentation of the Music Listening Group this season.

BURN TREATMENT SOUGHT

A group of 30 scientists at the Medical College of Virginia at Richmond are searching for the best means of treating victims of atomic radiation and ordinary burns, according to recent press stories. The studies are being directed by Dr. Everett I. Evans, head of the surgical research department of the university.



5-9960

Y-12 Photos By Vince Moore

THIS HAPPY BUNCH OF Y-12ERS IS THE CONTROLLERS bowling team of the women's league of plant bowlers who want the world to know they have just knocked over an opposing team for two prized points. In the back row, from left, are Oredean Upchurch, Betty Whitehorn and Madeline Franklin while in front are Katie Williams and Betty Sherman.

Be It Bar' Bunnies Or Birds Your're Hunting, Be Careful

Be you a-goin' huntin' soon—now that the season is open in Tennessee?

Well, be it for bar', bunnies or birds—take care of yourself, and the other fellow, out there in the woods and fields.

An appalling number of hunters meet tragic deaths every year through no fault of their own—and many others die through their own carelessness. Just about every one of those "accidental" deaths from shotgun or rifle wounds can be avoided through use of plain common sense.

There's no excuse for a hunter "not to know the gun was loaded" when he is out after feathered or furred game. That is a prime responsibility—to have the weapon unloaded while walking on the way to and from the hunting grounds. It is wise to have the breech of the gun open at these times.

Hunting Deaths Major Problem

Most of the hunting season deaths that make the headlines involve the shooting of one member of a hunting party—or it might be even another party—by a careless hunter who mistakes a movement in bushes or undergrowth by some hunter for an animal. It has happened so many times that it has grown to a major cause of accidental deaths in the National Safety Council statistical records.

It is so easy to be sure—the hunter might miss one shot at the quarry—but if he is a good hunter—and a good sport—he will wait until he is positive the target in his sights is what he believes it to be—and not another human being, a deer, bear, rabbit or boar and not a cow, horse, pet dog or domestic pig.

This type of carelessness, of not being positive of the target, was pictorially recorded in a major picture magazine last week that showed photographs of hunters taking shots at a stuffed deer placed alongside a California roadside. These hunters just didn't wait or think about anything but being "trigger happy."

Remember Monty Stratton

Remember "Monty" Stratton, the big league baseball pitcher who lost his leg in a hunting accident? He failed to unload his shotgun while climbing through a fence and a wire or portion of the fence tripped the trigger. That incident has been repeated many times—with the majority of cases resulting in serious and permanent injuries or fatal wounds.

Always, when climbing over or through fences, unload the weapon. This also goes when the guns are placed against trees or other objects or at any time when the hunter is not actually stalking his prey.

Personal attention to the gun is another prime requisite of a good hunter. The weapon always should be kept in good condition—cleaned and oiled. Many injuries have resulted from a gun barrel exploding as the result of an obstruction—such as mud.

Be Careful And Courteous

There are a host of rules for safe conduct and procedure in the

Y-12 Team Opens Badminton Loop Play Thursday

The Y-12 badminton team will begin giving the folks the bird come tomorrow night when hostilities will open in the Oak Ridge City League, which will be composed of four teams. The battledore and shuttlecock contestants will do their stuff in the new gymnasium of the Jefferson Junior High School.

The Oak Ridge League will be composed of teams from Y-12, the NEPA Division of Fairchild Engine and Airplane Co., K-25 and the Oak Ridge National Laboratory. Matches will be played every Thursday night at Jefferson with three men's singles, two women's singles, two men's doubles, one women's doubles and two mixed doubles contests scheduled.

The Y-12 team will include Mal Wallis and Mrs. Wallis, Spence Wallace and Mrs. Wallace, Fred Hurst and Mrs. Hurst, Tony Valdock, Ann Gwaltney and Don Ward.

First Atomic Engine Planned For Uncle Sam's Submarines

The first engine ever powered to turn a shaft by atomic energy has been invented and in the works for production, according to the National Patent Council. Materials for the parts are in the testing stage and the engine will be assembled at the Westinghouse laboratory near Pittsburgh. A crew of 600 has been organized to do the job.

The engine has been designed for Uncle Sam's submarines. This first engine will be used as a laboratory model. Should the tests prove successful other working models may be expected for submarine installation.

Chief engineer for the project is Dr. Lawrence Hafstad, considered a wizard at production in this field. He has a budget of \$200,000, 000 for the coming year.

field for hunters—and all are based on the old premises of being careful and being courteous to other hunters in the field.

Again—harping on that unloading of the guns—keep the weapons that way around the house before and after hunting. Yes, there are many home accidental shootings that have resulted from failure of some hunter to check his rifle or shotgun there.

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Permit No. 3Carelessly Started Forest Fires Can Create Much
Damage; 200,000 Blazes Are Reported Every Year

Almost one-third of the land in the United States is forest land—630,000,000 acres in all. In these forests and woods every year more than 200,000 fires burn and scar about 30,000,000 acres—more than one-twentieth of the nation's woodlands burned and damaged each 12 months.

Of these fires, 90 per cent are caused by human beings—campers, hunters, farmers, tourists and others who work in forests or close to them or who drive or tramp through them. Campers, for instance, are in a hurry to hit the trail and leave campfires without being sure they are out. A breeze then fans feeble sparks to life and the fire creeps along the forest floor. Soon the floor is a sheet of fire and if the wind rises sharply the flames spring upward into the branches of trees and a major conflagration results.

Cigarette Stubs Are Dangerous

Motorists speeding along a highway running through a forest may carelessly flip a cigarette out a window instead of extinguishing it in an ashtray. Wind may send the stub into dry grass or weeds and another fire is started. So it goes—any spark is dangerous in the woods.

Only 10 per cent of forest fires are started by natural causes such as lightning or spontaneous combustion—the other 90 per cent are man made. Of this number 60 per cent are the result of ignorance and carelessness and the other 30 per cent are deliberately set. Sometimes they are set by arsonists for malicious reasons and often they are started under the misguided idea that they might drive away snakes, spiders, chiggers or boll weevils. Fires started to clean off some land often spread out of control onto other valuable timber land.

Field Fire Proves Costly

For instance a farmer might decide to burn rubble in a wheat field. As the rubble burned an unexpected wind arose and the fire spread through not only his own grazing land but took in ranges of others. In one reported case such a fire was fought by 500 men, four farmers were killed, scores suffered burns and other injuries and the total damage was \$300,000.

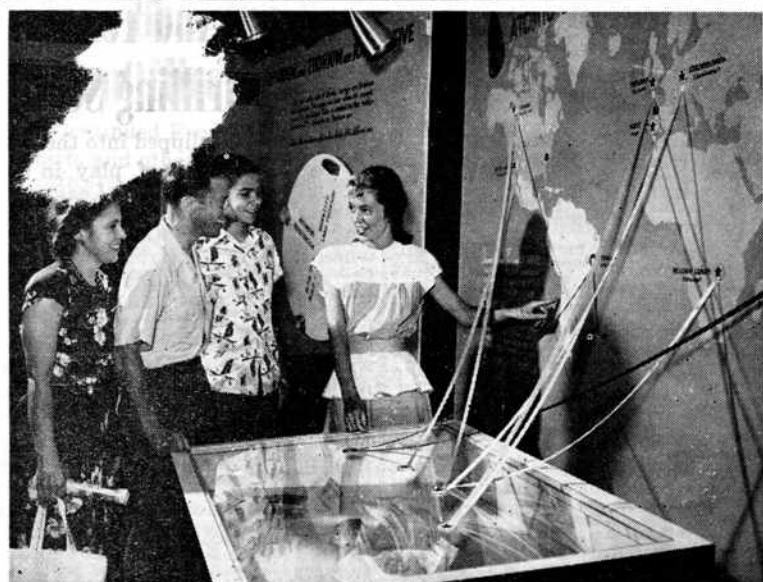
Forest fires take their toll of wildlife. The forest is the home of the deer, bear, chipmunk, squirrel and many birds. When fire strikes in the woods it may travel so fast as to outrun even the fleet deer. Many animals therefore are trapped alive and burned to death. Although some may survive their nests and dens are destroyed as is much of the food off which they live.

So—picnickers, tourists, farmers, sportsmen and others who frequent the woods or who may just be passing through—you have a direct responsibility to prevent forest fires. Just be careful and use common sense in treatment of all fires and protect the nation's forests and fields from the scourge of flames.



able quantities of compounds synthesized from carbon, sulphur, phosphorous and iodine will be needed soon. There are many potential uses of radioisotopes in the rubber industry, the petroleum industry and many others where tracing by chemicals will provide the answers to many questions.

SMOKEY SAYS—



5-9526

Y-12 Photos By Vince Moore

A CHILEAN, LUIS CORNEJO, SECOND FROM LEFT, A mining engineer from Santiago and the first representative of his nation to visit the Oak Ridge Institute of Nuclear Studies Museum of Atomic Energy is shown above with Knoxville relatives. At left is Mrs. J. A. Moore, sister of the visiting Chilean, and her two children, Jimmy and Nan. Mrs. Moore is a sister-in-law of Vincent Moore, Y-12 photographer.



(Continued From Page 2)

Oak Ridge while vacationing. . . L. V. Thornton went over to Kingston for his vacation while D. B. Samuel (the Limerick author) enjoyed his vacation in Lexington, Ky. . . Clyde Ferrell and her husband, George Ferrell, of Maintenance Shops, entertained a big group of fellow employees with a Thanksgiving dinner.

Eddy Long has sincere get well wished extended by Health Physics and Hygiene Department. . . Those avid football fans Elaine Watson and her husband went up to Lexington to see the Wildcat-Vol game and followed it up by seeing Vanderbilt and Tennessee play last Saturday.

Jodie Brown, of Medical, spent the past week end at home in Viola, Tenn.

Well, as the Knoxville raddio man says—it time to start cooking the spuds—so goom-bye for this time.

AEC Is Backing
Notre Dame Project

The Chemical and Engineering News has reported that the University of Notre Dame has announced that under a newly completed contract its radiation chemistry project will be operated under the auspices of the Atomic Energy Commission. Previously, a considerable portion of the support of the university project was received from the Office of Naval Research.

French Working
With New Element

A recent news story from Paris declares that French nuclear scientists are reported to have under study a new element for producing atomic energy. This new element is said to be neither uranium nor plutonium. The story notes that the French scientists are keeping the nature of the element a deep secret but that atomic experts in Washington believe it might be thorium. No comment on the report has been made by the Atomic Energy Commission.

Radioisotopes Sold
'Over The Counter'

One new tool that doesn't require much selling to a research man is the radioisotope, according to a recent issue of the magazine Business Week. Radioisotopes allow him to "tag" compounds used in processes under study, give him a play-by-play picture of what is going on. A number of pharmaceutical and chemical plants have been talking with AEC about commercializing the business of synthesizing radioactive compounds.

Boston Firm Making History

Recently, however, one firm was already selling, over the counter, a series of compounds "tagged" with Carbon-14. With this move, Tracerlab, Inc., 55 Oliver St., Boston, is making business history as the first company to open up a radioactive compound shop for industry.

Tracerlab has ambitious plans for its new venture. The company expects: (1) to have a variety of tagged compounds suitable for research groups who aren't in a position to make their own; (2) to cut costs, because large-scale manufacture for a lot of customers is cheaper than doing a special job for one (except for materials, the cost of synthesizing a radioactive compound does not increase with quantity); (3) to save time in the application of radioisotopes to industrial problems in research laboratories.

More Varieties To Be Added

Tracerlab is already offering barium carbide, acetylene, sodium cyanide, methyl alcohol, and methyl iodine. Several others will be added to the list within the near future. The barium carbide costs about \$150 per millicurie (this includes the cost of the original Carbon-14). Others range in price up to \$500. But to buy any of the compounds, the customer must: (1) fill out AEC Form 313, stating the number of millicuries of Carbon-14 needed in the compound; (2) get AEC approval on Form 374; and (3) send the original of the approval along with the purchase order to Tracerlab. Then the compound can be shipped from stock.

It's a safe bet that Tracerlab won't be alone in the field very long. The potential value of radioisotopes is so great that consider-

Additions To Y-12 Technical Library

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Several Y-12 Employees, Sons
Active In Civil Air Patrol

(Continued From Page 1)

topics. Miller and Payne also attended camp at the Army base at Smyrna, near Nashville, and Payne was the first of the squadron cadets to make a solo flight during the past summer. Robert Slover is also a cadet in the squadron.

The Oak Ridge Squadron of the Civil Air Patrol is commanded by Capt. E. J. Keen. Not so long ago he went to Wichita, Kan., where he was assigned an Army L-5 plane for use by the squadron. The plane was flown back by Captain Keen and is now at the Air Park. It is a two-place Stinson job, originally designed as an ambulance plane for the Army.

The squadron members spend about 30 hours a month in the air in their training schedule. The group meets at 7:30 o'clock every Tuesday night in class sessions and at the same hour on Friday night a staff meeting is held. Captain Keen has urged any Y-12er interested in flying and joining the squadron to attend one of these meetings and obtain complete information on the work of the squadron. Lieutenant Wright also can be reached at telephone 7041 in Y-12 for the information.

The squadron now has a membership of 36 senior members and 20 cadets. The Civil Air Patrol is an auxiliary reserve of the United States Air Forces and provides a stable background for the USAF.

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